

#15

RAW SEQUENCE LISTING

PATENT APPLICATION: US/09/245,025 TIME: 11:46:15

DATE: 08/13/2001

Input Set : N:\Crf3\RULE60\09245025.txt
Output Set: N:\CRF3\08132001\I245025.raw

SEQUENCE LISTING

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(1) GENERAL INFORMATION:
             (i) APPLICANT: Gerard, Gary F.
      7
                             Smith, Michael D.
                             Chatterjee, Deb K.
      8
            (ii) TITLE OF INVENTION: Compositions and Methods for Reverse
     10
                                      Transcription of Nucleic Acid Molecules
     11
     13
           (iii) NUMBER OF SEQUENCES: 23
     15
            (iv) CORRESPONDENCE ADDRESS:
                  (A) ADDRESSEE: STERNE, KESSLER, GOLDSTEIN & FOX P.L.L.C.
     16
                  (B) STREET: 1100 New York Avenue, Suite 600
     17
     18
                  (C) CITY: Washington
     19
                  (D) STATE: DC
     20
                  (E) COUNTRY: USA
                                                                ENTERED
     21
                  (F) ZIP: 20005
             (v) COMPUTER READABLE FORM:
     23
                  (A) MEDIUM TYPE: Floppy disk
     24
                  (B) COMPUTER: IBM PC compatible
     25
                  (C) OPERATING SYSTEM: PC-DOS/MS-DOS
     26
                  (D) SOFTWARE: PatentIn Release #1.0, Version #1.30
     27
     29
            (vi) CURRENT APPLICATION DATA:
                  (A) APPLICATION NUMBER: US/09/245,025
C--> 30
                  (B) FILING DATE: 25-Feb-1999
C--> 31
     37
                  (C) CLASSIFICATION:
           (vii) PRIOR APPLICATION DATA:
     39
     35
                  (A) APPLICATION NUMBER: 09/064,057
                  (B) FILING DATE:
     36
     40
                  (A) APPLICATION NUMBER: US 60/044,589
                  (B) FILING DATE: 22-APR-1997
     41
     43
          (viii) ATTORNEY/AGENT INFORMATION:
                  (A) NAME: Esmond, Robert W.
     44
     45
                  (B) REGISTRATION NUMBER: 32,893
     46
                  (C) REFERENCE/DOCKET NUMBER: 0942.4330002
            (ix) TELECOMMUNICATION INFORMATION:
     48
     49
                  (A) TELEPHONE: 202-371-2600
     50
                  (B) TELEFAX: 202-371-2540
     53 (2) INFORMATION FOR SEQ ID NO: 1:
             (i) SEQUENCE CHARACTERISTICS:
                  (A) LENGTH: 35 base pairs
     56
     57
                  (B) TYPE: nucleic acid
                  (C) STRANDEDNESS: both
     58
                  (D) TOPOLOGY: both
     59
            (ii) MOLECULE TYPE: cDNA
     61
            (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1:
                                                                                  35
     68 AGGAGACCCA TATGACTGTT GCGCTACATC TGGCT
     70 (2) INFORMATION FOR SEQ ID NO: 2:
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(i) SEQUENCE CHARACTERISTICS:

DATE: 08/13/2001

RAW SEQUENCE LISTING

PATENT APPLICATION: US/09/245,025 TIME: 11:46:15

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73
              (A) LENGTH: 34 base pairs
              (B) TYPE: nucleic acid
 74
 75
              (C) STRANDEDNESS: both
 76
              (D) TOPOLOGY: both
 78
        (ii) MOLECULE TYPE: cDNA
 83
        (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2:
                                                                            34
 85 AACGCGACAG GTTAACAGCG CGCAAATCAT GCAG
 87 (2) INFORMATION FOR SEQ ID NO: 3:
         (i) SEQUENCE CHARACTERISTICS:
 89
 90
              (A) LENGTH: 32 base pairs
 91
              (B) TYPE: nucleic acid
 92
              (C) STRANDEDNESS: both
 93
              (D) TOPOLOGY: both
 95
        (ii) MOLECULE TYPE: cDNA
        (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3:
                                                                             32
 102 CACACAGG TACCCTCTCG AAAAGTTAAA CC
 104 (2) INFORMATION FOR SEQ ID NO: 4:
       (i) SEQUENCE CHARACTERISTICS:
 106
               (A) LENGTH: 41 base pairs
 107
               (B) TYPE: nucleic acid
 108
 109
               (C) STRANDEDNESS: both
 110
               (D) TOPOLOGY: both
         (ii) MOLECULE TYPE: cDNA
. 112
        (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4:
 117
                                                                             41
 119 CACACACAT CGAGTTATGC AAAAAGAGGG CTCGCCTCAT C
 121 (2) INFORMATION FOR SEQ ID NO: 5:
 123 (i) SEQUENCE CHARACTERISTICS:
 124
              (A) LENGTH: 36 base pairs
 125
               (B) TYPE: nucleic acid
               (C) STRANDEDNESS: both
 126
               (D) TOPOLOGY: both
 1.27
         (ii) MOLECULE TYPE: cDNA
 129
 134
        (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 5:
 136 GGACCCACTG TCTTTACCGC GGCCTCCTCA AGCACC
                                                                             36
 138 (2) INFORMATION FOR SEQ ID NO: 6:
        (i) SEQUENCE CHARACTERISTICS:
               (A) LENGTH: 35 base pairs
 141
               (B) TYPE: nucleic acid
 142
               (C) STRANDEDNESS: both
 143
 144
               (D) TOPOLOGY: both
 146
         (ii) MOLECULE TYPE: cDNA
         (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 6:
                                                                             35
 153 CACACACCC CGGGTTAATA CGCTTGGAAG GTGGC
 155 (2) INFORMATION FOR SEQ ID NO: 7:
         (i) SEQUENCE CHARACTERISTICS:
 157
 158
              (A) LENGTH: 31 base pairs
              (B) TYPE: nucleic acid
 159
 160
              (C) STRANDEDNESS: both
              (D) TOPOLOGY: both
 161
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RAW SEQUENCE LISTING

PATENT APPLICATION: US/09/245,025 TIME: 11:46:15

DATE: 08/13/2001

163 (ii) MOLECULE TYPE: cDNA 168 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 7: 170 CACACACATC ATGACTGTTG CGCTACATCT G 172 (2) INFORMATION FOR SEQ ID NO: 8: 174 (i) SEQUENCE CHARACTERISTICS: 175 (A) LENGTH: 29 base pairs 176 (B) TYPE: nucleic acid	31
177 (C) STRANDEDNESS: both	
178 (D) TOPOLOGY: both	
180 (ii) MOLECULE TYPE: cDNA 185 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 8:	
185 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 8: 187 CACACAGG TACCCTCTCG AAAAGTTAA	29
189 (2) INFORMATION FOR SEQ ID NO: 9:	2,5
191 (i) SEQUENCE CHARACTERISTICS:	
192 (A) LENGTH: 48 base pairs	
193 (B) TYPE: nucleic acid	
194 (C) STRANDEDNESS: both	
195 (D) TOPOLOGY: both	
197 (ii) MOLECULE TYPE: cDNA	
202 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 9:	
204 CACACAGA GGAATTCAGT GATGGTGATG GTGATGTGCA AAAAGAGG	48
206 (2) INFORMATION FOR SEQ ID NO: 10:	
208 (i) SEQUENCE CHARACTERISTICS:	
209 (A) LENGTH: 41 base pairs	
210 (B) TYPE: nucleic acid	
211 (C) STRANDEDNESS: both	
212 (D) TOPOLOGY: both	
214 (ii) MOLECULE TYPE: cDNA	
219 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 10:	
221 ACTGGAATTC ATGCCAATCC ATCACCATCA CCATCACCCG T	41
223 (2) INFORMATION FOR SEQ ID NO: 11:	
225 (i) SEQUENCE CHARACTERISTICS:	
226 (A) LENGTH: 41 base pairs	
227 (B) TYPE: nucleic acid	
228 (C) STRANDEDNESS: both	
229 (D) TOPOLOGY: both	
231 (ii) MOLECULE TYPE: cDNA	
236 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 11:	41
238 ACGTGTCGAC CATATGGATG ACTAGGTGAA ACGGGTGATG G 240 (2) INFORMATION FOR SEQ ID NO: 12:	4.1
240 (2) INFORMATION FOR SEQ ID NO: 12: 242 (i) SEQUENCE CHARACTERISTICS:	
242 (1) SEQUENCE CHARACTERISTICS. 243 (A) LENGTH: 71 base pairs	
244 (B) TYPE: nucleic acid	
245 (C) STRANDEDNESS: both	
246 (D) TOPOLOGY: both	
248 (ii) MOLECULE TYPE: cDNA	
253 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 12:	
255 ACTGGAATTC ATGCCATCA CCATCACCG TTTCACCTAG TCATCCATAT	60
257 GGTCGACACG T	71

DATE: 08/13/2001

RAW SEQUENCE LISTING

PATENT APPLICATION: US/09/245,025 TIME: 11:46:15

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260 (2) INFORMATION FOR SEQ ID NO: 13:
262
       (i) SEQUENCE CHARACTERISTICS:
263
              (A) LENGTH: 48 base pairs
              (B) TYPE: nucleic acid
264
265
              (C) STRANDEDNESS: both
266
              (D) TOPOLOGY: both
268
        (ii) MOLECULE TYPE: cDNA
        (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 13:
275 GACTAGTTCT AGATCGCGAG CGGCCGCCCA TTAACTCTCG TTGGCAGC
                                                                            48
277 (2) INFORMATION FOR SEQ ID NO: 14:
        (i) SEQUENCE CHARACTERISTICS:
279
280
             (A) LENGTH: 16 base pairs
281
              (B) TYPE: nucleic acid
              (C) STRANDEDNESS: both
282
283
              (D) TOPOLOGY: both
        (ii) MOLECULE TYPE: cDNA
285
        (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 14:
290
                                                                            16
292 TCGACCCACG CGTCCG
294 (2) INFORMATION FOR SEQ ID NO: 15:
       (i) SEQUENCE CHARACTERISTICS:
             (A) LENGTH: 12 base pairs
297
298
              (B) TYPE: nucleic acid
              (C) STRANDEDNESS: both
299
             (D) TOPOLOGY: both
300
        (ii) MOLECULE TYPE: cDNA
302
        (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 15:
307
                                                                            12
309 CGGACGCGTG GG
311 (2) INFORMATION FOR SEQ ID NO: 16:
      (i) SEQUENCE CHARACTERISTICS:
              (A) LENGTH: 42 base pairs
314
              (B) TYPE: nucleic acid
315
              (C) STRANDEDNESS: both
316
              (D) TOPOLOGY: both
317
319
        (ii) MOLECULE TYPE: cDNA
        (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 16:
                                                                            42
326 AUGGAGAUCU CUGAATTCAT GACTGTTGCG CTACATCTGG CT
328 (2) INFORMATION FOR SEQ ID NO: 17:
330
        (i) SEQUENCE CHARACTERISTICS:
             (A) LENGTH: 32 base pairs
331
              (B) TYPE: nucleic acid
332
333
              (C) STRANDEDNESS: both
              (D) TOPOLOGY: both
334
        (ii) MOLECULE TYPE: cDNA
336
       (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 17:
                                                                            32
343 ATTATTCATA TGACTGTTGC GCTACATCTG GC
345 (2) INFORMATION FOR SEQ ID NO: 18:
       (i) SEQUENCE CHARACTERISTICS:
347
             (A) LENGTH: 24 base pairs
348
              (B) TYPE: nucleic acid
349
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PATENT APPLICATION: US/09/245,025 TIME: 11:46:15

DATE: 08/13/2001

358 (xi) 360 TACGATCT 362 (2) INFO	(C) STRANDEDNESS: both (D) TOPOLOGY: both MOLECULE TYPE: cDNA SEQUENCE DESCRIPTION: SEQ ID NO: 18: CCT CTCCAGGCCA TTTT DRMATION FOR SEQ ID NO: 19: SEQUENCE CHARACTERISTICS: (A) LENGTH: 24 base pairs	24
366 367	(B) TYPE: nucleic acid (C) STRANDEDNESS: both	
368	(D) TOPOLOGY: both	
	MOLECULE TYPE: cDNA	
	SEQUENCE DESCRIPTION: SEQ ID NO: 19:	24
	AG CCCGGGAACC TTTG	24
	PRMATION FOR SEQ ID NO: 20:	
	SEQUENCE CHARACTERISTICS:	
382	(A) LENGTH: 48 base pairs	
383	(B) TYPE: nucleic acid	
384	(C) STRANDEDNESS: both	
385	(D) TOPOLOGY: both	
	MOLECULE TYPE: cDNA	
	SEQUENCE DESCRIPTION: SEQ ID NO: 20:	4.0
	GGG AGGATATCAT ATGTTAGCGA TGACAATGGA ACATAAAG	48
	RMATION FOR SEQ ID NO: 21:	
	SEQUENCE CHARACTERISTICS:	
399	(A) LENGTH: 36 base pairs	
400	(B) TYPE: nucleic acid	
401	(C) STRANDEDNESS: both	
402	(D) TOPOLOGY: both	
	MOLECULE TYPE: cDNA	
	SEQUENCE DESCRIPTION: SEQ ID NO: 21:	2.0
	SAC TCACAGTGGC CCTCCCTATA AATTTG	36
	RMATION FOR SEQ ID NO: 22:	
	SEQUENCE CHARACTERISTICS:	
416	(A) LENGTH: 35 base pairs	
417	(B) TYPE: nucleic acid	
418	(C) STRANDEDNESS: both	
419	(D) TOPOLOGY: both	
	MOLECULE TYPE: cDNA	
	SEQUENCE DESCRIPTION: SEQ ID NO: 22:	2.5
	ATC CCATGACTGT TGCGCTACAT CTGGC	35
	ORMATION FOR SEQ ID NO: 23:	
	SEQUENCE CHARACTERISTICS:	
433	(A) LENGTH: 29 base pairs	
434	(B) TYPE: nucleic acid	
435	(C) STRANDEDNESS: both	
436	(D) TOPOLOGY: both	
	MOLECULE TYPE: cDNA	
442 (xi)	SEQUENCE DESCRIPTION: SEQ ID NO: 23:	

VERIFICATION SUMMARY

DATE: 08/13/2001

PATENT APPLICATION: US/09/245,025

TIME: 11:46:16

Input Set : N:\Crf3\RULE60\09245025.txt Output Set: N:\CRF3\08132001\I245025.raw

L:30 M:220 C: Keyword misspelled or invalid format, [(A) APPLICATION NUMBER:] L:31 M:220 C: Keyword misspelled or invalid format, [(B) FILING DATE:]